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- 1** [Eon: a language and runtime system for perpetual systems](#)
 Jacob Sorber, Alexander Kostadinov, Matthew Garber, Matthew Brennan, N
 November 2007 **SenSys '07: Proceedings of the 5th international conferenc**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (945.71 KB)

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Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 109, Downl

Embedded systems can operate perpetually without being connected to environmental energy from motion, the sun, wind, or heat differentials. *systems* is challenging. In response to ...

Keywords: coordination languages, embedded systems, energy harves

- 2** [Using hardware methods to improve time-predictable performance in](#)
 Jack Whitham, Neil Audsley, Martin Schoeberl
 September 2009 **JTRES '09: Proceedings of the 7th International Workshop Embedded Systems**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (528.69 KB)

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This paper describes hardware methods, a lightweight and platform-ind code to co-processors implemented using a hardware description langua systems, hardware methods have ...

- 3** [A hardware mechanism for dynamic extraction and layout of progr](#)
 Matthew C. Merten, Andrew R. Trick, Erik M. Nystrom, Ronald D. Barnes, V
 June 2000 **ISCA '00: Proceedings of the 27th annual international symp**

Publisher: ACM

Full text available: Pdf (320.13 KB)

 Additional Information: [full citation](#), [abstr](#)
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 27, Downloa

This paper presents a new mechanism for collecting and deploying runti component resides in the instruction retirement stage and lays out hot e rate as well as enable further ...

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May 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 2

4 [Game-theoretic timing analysis](#)

[Sanjit A. Seshia](#), [Alexander Rakhlin](#)

November 2008 **ICCAD '08**: Proceedings of the 2008 IEEE/ACM International

Publisher: IEEE Press


Full text available:  [Pdf](#) (293.28 KB)

Additional Information: [full citation](#), [abstract](#)

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Estimating the worst-case execution time (WCET) of tasks is a key step in the design of real-time systems. In this paper, we present a new, game-theoretic approach to directed measurements on ...

5 [Fast and transparent recovery for continuous availability of cluster-based](#)

 [Rosalia Christodouloupoulou](#), [Kaloian Manassiev](#), [Angelos Bilas](#), [Cristiana Am](#)

March 2006 **PPoPP '06**: Proceedings of the eleventh ACM SIGPLAN symposium on partial evaluation and program manipulation

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (111.02 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 62, Downloads

Recently there has been renewed interest in building reliable servers that can recover from failures. Besides maintaining system state consistent after a failure, one of the non-trivial operations is to provide ...

Keywords: availability, distributed shared memory, fast failure reconfiguration

6 [Java memory model aware software validation](#)

 [Arnab De](#), [Abhik Roychoudhury](#), [Deepak D'Souza](#)

November 2008 **PASTE '08**: Proceedings of the 8th ACM SIGPLAN-SIGSOFT workshop on partial evaluation and program manipulation

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (318.13 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 55, Downloads


The Java Memory Model (JMM) provides a semantics of Java multithreaded programs. JMM is defined in a declarative fashion with an allowed program execution order. "commit sequences" (roughly, ...

7 [Tracing for web 3.0: trace compilation for the next generation web applications](#)

 [Mason Chang](#), [Edwin Smith](#), [Rick Reitmaier](#), [Michael Bebenita](#), [Andreas Gal](#), [Franz](#)

March 2009 **VEE '09**: Proceedings of the 2009 ACM SIGPLAN/SIGOPS international conference on virtual execution environments

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (647.16 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 418, Downloads

Today's web applications are pushing the limits of modern web browsers. ...

platform of choice for rich client-side applications has shifted the use of programs to large computationally ...

Keywords: dynamic compilation, dynamically typed languages, forth, j specialization

- 8** [Automatic Timing Model Generation by CFG Partitioning and Model](#)
[Ingomar Wenzel, Bernhard Rieder, Raimund Kirner, Peter Puschner](#)
 March 2005 **DATE '05: Proceedings of the conference on Design, Automation and Test in Europe**, Volume 1


Publisher: IEEE Computer Society

Full text available:  [Pdf](#) (260.33 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 20, Downloads (All Time): 1

In this paper we present a new measurement-based worst-case execution time analysis. Exhaustive end-to-end measurements are computationally intractable in general. We measure execution times of subparts of the application. ...

- 9** [Automatic generation of equivalent architecture model from functional description](#)
 [Samar Abdi, Daniel Gajski](#)
 June 2004 **DAC '04: Proceedings of the 41st annual Design Automation Conference**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (226.05 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 10, Downloads (All Time): 1

This paper presents an algorithm for automatic generation of an architecture model from a functional description and proves its correctness. The architecture model is generated by distributing the design over various components ...

Keywords: formal verification, model refinement, system level design

- 10** [Flexible transaction processing in the Argos middleware](#)
 [Anna-Brith Arntsen, Mats Mortensen, Randi Karlsen, Anders Andersen, Arne Rasmussen](#)
 March 2008 **SETMDM '08: Proceedings of the 2008 EDBT workshop on Semantic Management in Data Management**

Publisher: ACM


Full text available:  [Pdf](#) (448.77 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 39, Downloads (All Time): 1

Transactional requirements, from new application domains and execution environments, exceed traditional ACID properties. We believe that transactional middlewares should adapt to varying transactional requirements ...

Keywords: adaptability, architecture, component-based system, configuration

- 11** [Compiling code accelerators for FPGAs](#)
 [Walid A. Najjar](#)
 September 2007 **CASES '07: Proceedings of the 2007 international conference on Computer-Aided Synthesis of High-Speed Integrated Circuits**

synthesis for embedded systems

Publisher: ACM

Full text available:  Pdf (159.84 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 45, Downloads (All Time): 100

This tutorial addresses the challenges and opportunities presented by cc recent years we have witnessed a fast growth of both size and speed of and marketed as convenient ...

Keywords: FPGA code acceleration

12 Faithful Reconstruction of Application Behavior Based on Event Trac

[Qing Cao](#), [Tarek Abdelzaher](#)

April 2008 **IPSN '08:** Proceedings of the 7th international conference on

Publisher: IEEE Computer Society

Full text available:  Pdf (139.03 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Downloads (All Time): 100

Visibility has been a key challenge for wireless sensor network applicati constrained mote platform, such applications may fail unexpectedly, or intended goals. To help understand ...

Keywords: liteos, visibility

13 On the predictability of Java byte codes (abstract) (poster session)

 [Karel Driesen](#), [Patrick Lam](#), [Jerome Miecznikowski](#), [Feng Qian](#), [Derek Raysi](#)
January 2000 **OOPSLA '00:** Addendum to the 2000 proceedings of the conf systems, languages, and applications (Addendum)

Publisher: ACM  Request Permissions


Full text available:  Pdf (335.84 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Downloads (All Time): 100

Java byte codes are platform-independent. That means that any charac code execution level will reveal characteristics that any Java Virtual Mac whether this JVM is a ...

14 Proceedings of the 2009 workshop on Bio-inspired algorithms for dis

 [Gianluigi Folino](#), [Natalio Krasnogor](#), [Carlo Mastrolanni](#), [Franco Zambonelli](#)
June 2009 **BADS '09:** Proceedings of the 2009 workshop on Bio-inspired

Publisher: ACM



Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (All Time): 100

It is our great pleasure to welcome you to BADS 2009, the Workshop or Systems. The aim of the workshop is to provide a forum to explore the protocols in different kinds ...




15 Limits of task-based parallelism in irregular applications

[Barbara Kreaseck](#), [Dean Tullsen](#), [Brad Calder](#)




- March 2000 **SI GARCH Computer Architecture News**, Volume 28 Issue 1
 **Publisher:** ACM
 Full text available:  Pdf (84.43 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 20, Downloads (24 Months): 20

Tomorrow's microprocessors will be able to handle multiple flows of control and parallelism (TLP) and can be decomposed into parallel tasks will perform task is independent ...

16 [Communications of the ACM: Volume 52 Issue 7](#)

- July 2009 **Communications of the ACM**
 **Publisher:** ACM
 Full text available:  Digital Edition ,  Pdf (7.61 MB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 447, Downloads (12 Months): 447, Downloads (24 Months): 447




17 [Parallel execution of prolog programs: a survey](#)

- Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Her
 July 2001 **Transactions on Programming Languages and Systems**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (1.95 MB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 154, Downloads (24 Months): 154

Since the early days of logic programming, researchers in the field realized that parallelism present in the execution of logic programs. Their high-level languages and their referential transparency, ...

Keywords: Automatic parallelization, constraint programming, logic programming

18 [The worst-case execution-time problem—overview of methods and solutions](#)

- Reinhard Wilhelm, Jakob Engblom, Andreas Ermedahl, Niklas Holsti, Steph
 Christian Ferdinand, Reinhold Heckmann, Tulika Mitra, Frank Mueller, Isabe
 Per Stenström
 April 2008 **Transactions on Embedded Computing Systems (TECS)**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (856.48 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 71, Downloads (12 Months): 514, Downloads (24 Months): 514

The determination of upper bounds on execution times, commonly called worst-case execution time (WCET) analysis, is a necessary step in the development and validation process for hard real-time systems underlying processor architecture ...

Keywords: Hard real time, worst-case execution times

19 [Targeted Path Profiling: Lower Overhead Path Profiling for Staged D](#)

- Rahul Joshi, Michael D. Bond, Craig Zilles
 March 2004 **CGO '04: Proceedings of the international symposium on Code generation and runtime optimization**
Publisher: IEEE Computer Society


Full text available:  Pdf (281.40 KB)

Additional Information: [full citation](#), [abstr](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 23, Downloa

In this paper, we present a technique for reducing the overhead of collecting dynamic optimizer. The key idea to our approach, called TargetedPath Pi, is to simplify the collection of ...

20 Quality driven web services composition

 Liangzhao Zeng, Boualem Benatallah, Marlon Dumas, Jayant Kalagnanam, May 2003

WWW '03: Proceedings of the 12th international conference

Publisher: ACM

Full text available:  Pdf (245.01 KB)

Additional Information: [full citation](#), [abstr](#)

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 386, Downl

The process-driven composition of Web services is emerging as a promising application within and across organizational boundaries. In this approach, we introduce a new way of composing Web services into composite Web services whose ...

Keywords: QoS, service composition, web services

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